

BOBBY JINDAL
GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Agency Interest No. 1136
Activity No.: PER20090011

Mr. Glenn N. Bucholtz
General Manager
Shell Chemical LP
P. O. Box 500
Geismar, Louisiana 70734

RE: Part 70 Operating Permit Modification, EOEG-3 Unit, Geismar Plant, Shell Chemical LP, Geismar, Ascension Parish, Louisiana

Dear Mr. Bucholtz:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 28th of August, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2009.

Permit No.: 2185-V3

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary

SGQ
cc: EPA Region VI

**AIR PERMIT BRIEFING SHEET
PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**SHELL CHEMICAL LP
AGENCY INTEREST NO.: 1136
EOEG-3, GEISMAR PLANT
GEISMAR, ASCENSION PARISH, LOUISIANA**

I. Background

Shell Chemical LP owns and operates a chemical manufacturing complex located in Geismar, Louisiana. EOEG-3 facility is currently operating under a Part 70 Operating Permit No. 2185-V2 dated August 28, 2006.

II. Origin

A permit application dated September 17, 2009 was submitted by Shell Chemical LP requesting a Part 70 operating permit modification. Additional information as of October 26, 2009 was also received.

III. Description

Process unit EOEG-3 is an existing unit that consists of two processes EO-3 and EG-3, which produce ethylene oxide (EO) and ethylene glycols (EG), respectively. The EO-3 process produces EO from the catalytic reaction of ethylene and oxygen. EO is recovered by water absorption and steam stripping. The resulting aqueous EO is dehydrated and upgraded by fractionation to high purity EO (HPEO). EO and HPEO will either be used by other processes on site or shipped out in tank cars. However, some of the aqueous EO will be routed directly to EG-3 where the glycols are produced. In EG-3 ethylene glycol and smaller amounts of diethylene glycol (DEG) and triethylene glycol (TEG) are produced by hydrolyzing the aqueous EO. Aqueous EG reactor product is dehydrated and the resulting water is recycled to the reactor. The dehydrated mixed glycols stream is routed to the glycol's purification section where the individual glycols are separated, purified, and routed to storage tanks. The emission sources for this process are process vents, storage tanks, fugitive components, cooling tower, loading/unloading operations, miscellaneous sources, Insignificant Activities and General Condition XVII Activities.

The facility is proposing to incorporate EOEG-3 Upgrade Project. This project will increase High Purity Ethylene Oxide (HPEO) production and simultaneously reducing the Ethylene Glycol production. To achieve this goal the following modification will be undertaken:

1. The EG-3 Unit will be modified to enable the turndown operation of EG-3 and additional equipment will be added to maximize the recovery of HPEO with the shift of ethylene oxide product from EG-3 to HPEO product;
2. Change the catalyst in the EOEG-3 Unit if required; and
3. Update fugitive emissions from process equipment fugitive components based on the EOEG-3 Upgrade Project and revised component count;

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In addition the facility will modify the permit to reconcile the following:

1. Incorporate a temporary EOEG-3 Cooling Tower approved under a Variance dated August 27, 2009 as a permanent equipment, Emission Point 08-09; and
2. Incorporate an existing Lean Absorbent Surge Tank, Emission Point 01-91, which was inadvertently not included when the EOEG-1 Unit was moth balled.

Shell Chemical's EOEG-3 Unit located at Geismar Plant is in a serious nonattainment area for ozone. Any modification to the facility that increases NOx and VOC emissions must be reviewed based on the New Source Review (NSR) requirements. Estimated emissions increase based on actual to potential related to the EOEG-3 Upgrade Project irrespective of any decreases in tons per year are as follows:

<u>Pollutant</u>	<u>Project Emissions Increase</u>	<u>PSD/NNSR Significance Threshold</u>	<u>Netting Analysis</u>
PM ₁₀	4.04	15	No
SO ₂	-	40	No
NO _x	-	40/25	No
CO	-	100	No
VOC	0.80	40/25	No

The increase in emissions due to the EOEG-3 Upgrade Project do not exceed the Prevention of Significant Deterioration (PSD) significance threshold for any criteria pollutant, therefore, this project does not require netting or PSD review. Similarly, the increase in emissions due to this project does not exceed the Nonattainment New Source Review (NNSR) significance threshold; therefore, NNSR is not required.

Permitted emissions from EOEG-3 Unit in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	0.02	4.06	+ 4.04
SO ₂	0.02	0.02	-
NO _x	0.29	0.29	-
CO	0.07	0.07	-
VOC	45.57	45.92	+ 0.35

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VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Acetaldehyde	2.97	3.00	+ 0.03
Allyl chloride	0.01	0.03	+ 0.02
Ethylene glycol	4.52	4.82	+ 0.30
Ethylene oxide	6.56	7.07	+ 0.51
Formaldehyde	0.87	0.93	+ 0.06
Methanol	0.34	0.41	+ 0.07
Total	15.27	16.26	+ 0.99
Other VOC (TPY):		29.66	

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and NESHAP. New Source Review is not required.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. Acetaldehyde, allyl chloride, ethylene oxide, and formaldehyde emissions are above the minimum emission rates (MER) under Louisiana Air Toxic Regulations. Process vents containing acetaldehyde, ethylene oxide, and formaldehyde shall comply with maximum achievable control technology (MACT) requirements by maintaining the total resource effectiveness (TRE) index values above 4.0 (Group 2 vents only) in accordance with NESHAP (HON) Subpart G - National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater.

Fugitive emissions from equipment containing organic hazardous air pollutants are monitored under the leak detection and repair (LDAR) requirements of NESHAP (HON) Subpart H – National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks.

The impact of pollutants on air quality is below toxic ambient air standards (AAS) and national ambient air quality standards (NAAQS). The air toxic compliance plan was approved by LDEQ on August 31, 1995 and incorporated in the permit.

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The facility is increasing ethylene oxide, a toxic air pollutant (TAP), emissions more than its minimum emission rate (MER).

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment (under LAC 33:III.5107.D) on the permit was published in *The Advocate*, Baton Rouge, Louisiana and *The Gonzales Weekly*, Gonzales, Ascension Parish, Louisiana, on May **, 2010. Written and oral comments received during the comment period from the general public and organizations will be considered before issuing the permit. Copies of the public notice were mailed out to individuals on the mailing list maintained by Office of Environmental Services on May **, 2010.

VII. Effects on Ambient Air

Dispersion Model(s) Used: ISCST3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Quality Standard (AAQS)
Ethylene Oxide	Annual	11.51 ug/m ³	1.0 ug/m ³

The conservative modeling analysis indicated that the calculated maximum ground level concentration for ethylene Oxide is 11.51 ug/m³. This concentration exceeded the annual AAS of 1.0 ug/m³ under the state requirement. Further analysis indicated that these exceedances occurred on industrial properties, roads, a railroad that intersects the facility, property that is zoned industrial and owned by another party, and the river (uninhabited or

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restricted access). Since the exceedances are on the uninhabited and restricted access property; the maximum calculated ground level concentration of 388 ug/m³ (8-hour period) was compared with OSHA standard (8-hour Time Weighted Average) of 1800 ug/m³ for Ethylene Oxide. This demonstrated that the modeling results show compliance with the OSHA standards. Based on this conclusion LDEQ concurs that there will not be any adverse effect on the workers health.

VIII. General Condition XVII Activities

Activity	Frequency	VOC	PM	SO2	NOx	CO
		TPY	TPY	TPY	TPY	TPY
EOEG-3 Shutdown Purges	2 purges/yr	0.04	-			
EOEG-3 Daily Maintenance	6 purges/equipment/yr	3.00	-			
EOEG-3 Tanks Cleaning	Once/tank/yr	1.38	-			
EOEG-3 Reactor Purges	5 purges/yr	0.70	-			
EOEG-3 Sampling	20/day	0.01	-			
Large Fuel Fired Equipment	500 hp * 600 hrs	0.38	0.33	0.31	4.65	1.00
Small Fuel Fired Equipment	50 hp *6000 hrs	0.38	0.33	0.31	4.65	1.00

* The Spark Ignition Internal Combustion Engine (lean burn) shall have been manufactured before January 1, 2008. NSPS, 40 CFR 60, Subpart JJJ [40 CFR 60.4230(a)]

IX. Insignificant Activities

ID No.:	Description	Citation
-	Lab Vents	LAC 33:III.501.B.5.A.6
-	PAD Sump Pump Diesel Tank (508 gal)	LAC 33:III.501.B.5.A.3

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:II Chapter																	
		5	9	11	13	15	2103	2104	2107	2111	2115	2116	21	22	29*	51*	53	56	59
GRP31	EOEG-3 Facility	1	1	1	1	1							1	1	1	1	1	1	1
EQT191	04-94, EG Vacuum System Aftercondenser E-EG3252												2	2			1		
EQT192	11-92, Equipment Drains Vessels V. EG3822												2						
EQT193	12-92, EO-3 CO2 Vent V-EO3221												2	2					
EQT194	13-92, EOEG-3 Chemical Sewer Sump												2	2					
EQT195	14-92, Process Area Drainage Impound Tank T-EO3841												2						
EQT196	15-92, Process Area Drainage Impound Tank T-EO3842												2						
EQT197	16-92, Carbonate Tank T-EO3920												2						
EQT198	18-92, Contaminated Steam Vent PV-12348												2	2					
EQT199	19A-92, EG-3 Vacuum System Hotwell V- EG3251												2	2					
EQT200	20-92, Quenched Bleed Flasher Accumulator V-EG3321												2	2					
EQT201	22-92, EG Rundown Tank T-EG3924												2						
EQT202	23-92, EG Rundown Tank T-EG3925												2						
EQT203	24-92, DEG Rundown Tank T-EG3926												2						

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																	
		5	9	11	13	15	2103	2104	2107	2111	2115	2116	21	22	29*	51*	53	56	59
EQT204	25-92, EG Rundown Tank T-EG3927						2											1	
EQT205	26-92, TEG Rundown Tank T-EG3928							2										1	
EQT206	27-92, TEG Rundown Tank T-EG3929								2									1	
EQT207	29-92, Glycol Rerun Tank T-EG3931									2								1	
EQT208	30A-92, PAD Sump Pump Driver												2						
EQT209	31-92, Coolant Storage Tank T-EO3910						2								1				
EQT210	801-05, EO-3 Absorber Vent C-EO3XX												2		2		1		
EQT211	CWHE321, Cooling Water Heat Exch.																		
EQT212	CWHE322, Cooling Water Heat Exch.																		
EQT213	CWHE323, Cooling Water Heat Exch.																		
EQT214	CWHE324, Cooling Water Heat Exch.																		
EQT215	CWHE325, Cooling Water Heat Exch.																		
EQT216	CWHE326, Cooling Water Heat Exch.																		
EQT217	CWHE327, Cooling Water Heat Exch.																		
EQT218	CWHE328, Cooling Water Heat Exch.																		
EQT219	CWHE329, Cooling Water Heat Exch.																		
EQT220	CWHE330, Cooling Water Heat Exch.																		
EQT221	CWHE331, Cooling Water Heat Exch.																		

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																	
		5	9	11	13	15	2103	2104	2107	2111	2115	2116	21	22	29*	51*	53	56	59
EQT222	CWHE332, Cooling Water Heat Exch.																		
EQT223	CWHE333, Cooling Water Heat Exch.																		
EQT224	CWHE334, Cooling Water Heat Exch.																		
EQT225	CWHE335, Cooling Water Heat Exch.																		
EQT226	CWHE336, Cooling Water Heat Exch.																		
EQT227	CWHE337, Cooling Water Heat Exch.																		
EQT228	CWHE338, Cooling Water Heat Exch.																		
EQT229	CWHE339, Cooling Water Heat Exch.																		
EQT230	CWHE340, Cooling Water Heat Exch.																		
EQT231	CWHE341, Cooling Water Heat Exch.																		
EQT232	CWHE342, Cooling Water Heat Exch.																		
EQT233	CWHE343, Cooling Water Heat Exch.																		
EQT234	CWHE344, Cooling Water Heat Exch.																		
EQT235	CWHE345, Cooling Water Heat Exch.																		
EQT236	CWHE346, Cooling Water Heat Exch.																		
EQT237	CWHEXXX, Cooling Water Heat Exch.																		
EQT238	NNN-22a, Vent from NNN C-EO3240														2	2	1	1	
EQT239	NNN-22b, Vent from NNN C-EO3240														2	2	1	1	

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																	
		5	9	11	13	15	2103	2104	2107	2111	2115	2116	21	22	29*	51*	53	56	59
EQT240	NNN-22c, Vent from NNN C-EO3240												2	2				1	
EQT241	NNN-22d, Vent from NNN C-EO3240												2	2				1	
EQT242	NNN-23, Vent from NNN C-EG3110												2	2				1	
EQT243	NNN-24, Vent from NNN C-EG3140												2	2				1	
EQT244	NNN-25, Vent from NNN C-EG3150												2	2				1	
EQT245	PWW-13, Process Wastewater E-EO3105												2	2				1	
EQT246	PWW-14, Process Wastewater E-EO3221												2	2				1	
EQT247	PWW-15, Process Wastewater E-EO3226												2	2				1	
EQT248	PWW-16, Process Wastewater V-EO3261												2	2				1	
EQT249	PWW-17, Process Wastewater V-EO3151												2	2				1	
EQT250	PWW-18, Process Wastewater V-EO3251												2	2				1	
EQT251	PWW-19, Process Wastewater V-EO3304												2	2				1	
EQT252	PWW-20, Process Wastewater V-EO3321												2	2				1	
EQT253	RRR-01, Vent from RRR EO3												2	2				1	
EQT254	RRR-02, Vent from RRR EG3												2	2				1	
EQT255	RRR-03, Vent from RRR BQ3.												2	2				1	
EQT770	01-91, Lean Absorbent Surge Tank, T-E0200												2	2				1	

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ID No.:	Description	LAC 33:III.Chapter																
		5	9	11	13	15	2103	2104	2107	2111	2115	2116	21	22	29*	51*	53	56
EQT771	08-09, EO-3 Cooling Tower																	
FUG009	10-92, Fugitive Emissions EOEG3										1		2		1			

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
 Blank – The regulations clearly do not apply to this type of emission source.
 LAC 33:III.Chapter 29 and 51 – STATE ONLY requirements.

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ID No.:	Description	40 CFR 60 NSPS					40 CFR 61			40 CFR 63 NESHAP			40 CFR								
		A	K	K _a	K _b	VV	RRR	NNN	A	J	M	FF	A	F	G	H	4Fs	S2	64	68	82
GRP31	EOEG-3 Facility	1							1	1	1	1	1	1	1	1	2		1	1	1
EQT191	04-94, EG Vacuum System Aftercondenser E-EG3252							1													
EQT192	11-92, Equipment Drains Vessels V-EG3822								2								2				
EQT193	12-92, EO-3 CO2 Vent V-EO3221									1										1	1
EQT194	13-92, EOEG-3 Chemical Sewer Sump																			1	1
EQT195	14-92, Process Area Drainage Impound Tank T-EO3841																			1	1
EQT196	15-92, Process Area Drainage Impound Tank T-EO3842																			1	1
EQT197	16-92, Carbonate Tank T-EO3920								2										2	2	2
EQT198	18-92, Contaminated Steam Vent PV-12348										1								2	2	2
EQT199	19A-92, EG-3 Vacuum System Hotwell V-EG3251											2							2	2	2
EQT200	20-92, Quenched Bleed Flasher Accumulator V-EG3321											2							1	1	1
EQT201	22-92, EG Rundown Tank T-EG3924											2							1	1	1

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ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR						
		A	K	Ka	Kb	VV	RRR	NNN	A	J	M	FF	A	F	G	H	4Fs	52	64	68	82					
EQT202	23-92, EG Rundown Tank T-EG3925					2												1								
EQT203	24-92, DEG Rundown Tank T-EG3926					2												2								
EQT204	25-92, EG Rundown Tank T-EG3927					2												2								
EQT205	26-92, TEG Rundown Tank T-EG3928					2												2								
EQT206	27-92, TEG Rundown Tank T-EG3929					2												2								
EQT207	29-92, Glycol Rerun Tank T-EG3931					2												1								
EQT208	30A-92, PAD Sump Pump Driver																									
EQT209	31-92, Coolant Storage Tank T-EQ3910					2												2								
EQT210	801-05, EO-3 Absorber Vent C-EO3XX								2	1								2								
EQT211	CWHE321, Cooling Water Heat Exch.																		2							
EQT212	CWHE322, Cooling Water Heat Exch.																		2							
EQT213	CWHE323, Cooling Water Heat Exch.																		2							
EQT214	CWHE324, Cooling Water Heat Exch.																		2							
EQT215	CWHE325, Cooling Water Heat Exch.																		2							
EQT216	CWHE326, Cooling Water Heat Exch.																		2							
EQT217	CWHE327, Cooling Water Heat Exch.																		2							

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SHELL CHEMICAL LP
AGENCY INTEREST NO.: 1136
EOEG-3, GEISMAR PLANT
GEISMAR, ASCENSION PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR					
		A	K	Ka	Kb	VV	RRR	NNN	A	J	M	FF	A	F	G	H	4Fs	52	64	68	82				
EQT218	CWHE328, Cooling Water Heat Exch.																								
EQT219	CWHE329, Cooling Water Heat Exch.																								
EQT220	CWHE330, Cooling Water Heat Exch.																								
EQT221	CWHE331, Cooling Water Heat Exch.																								
EQT222	CWHE332, Cooling Water Heat Exch.																								
EQT223	CWHE333, Cooling Water Heat Exch.																								
EQT224	CWHE334, Cooling Water Heat Exch.																								
EQT225	CWHE335, Cooling Water Heat Exch.																								
EQT226	CWHE336, Cooling Water Heat Exch.																								
EQT227	CWHE337, Cooling Water Heat Exch.																								
EQT228	CWHE338, Cooling Water Heat Exch.																								
EQT229	CWHE339, Cooling Water Heat Exch.																								
EQT230	CWHE340, Cooling Water Heat Exch.																								
EQT231	CWHE341, Cooling Water Heat Exch.																								
EQT232	CWHE342, Cooling Water Heat Exch.																								

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SHELL CHEMICAL LP
AGENCY INTEREST NO.: 1136
EOEG-3, GEISMAR PLANT
GEISMAR, ASCENSION PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR							
		A	K	Ka	Kb	VV	RRR	NNN	A	J	M	FF	A	F	G	H	4Fs	52	64	68	82						
EQT233	CWHE343, Cooling Water Heat Exch.																										
EQT234	CWHE344, Cooling Water Heat Exch.																										
EQT235	CWHE345, Cooling Water Heat Exch.																										
EQT236	CWHE346, Cooling Water Heat Exch.																										
EQT237	CWHEXXX, Cooling Water Heat Exch.																										
EQT238	NNN-22a, Vent from NNN C-EO3240																										
EQT239	NNN-22b, Vent from NNN C-EO3240																										
EQT240	NNN-22c, Vent from NNN C-EO3240																										
EQT241	NNN-22d, Vent from NNN C-EO3240																										
EQT242	NNN-23, Vent from NNN C-EG3110																										
EQT243	NNN-24, Vent from NNN C-EG3140																										
EQT244	NNN-25, Vent from NNN C-EG3150																										
EQT245	PWW-13, Process Wastewater E-EO3105																										
EQT246	PWW-14, Process Wastewater E-EO3221																										
EQT247	PWW-15, Process Wastewater E-EO3226																										
EQT248	PWW-16, Process Wastewater V-EO3261																										

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SHELL CHEMICAL LP
AGENCY INTEREST NO.: 1136
EOEG-3, GEISMAR PLANT
GEISMAR, ASCENSION PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS					40 CFR 61					40 CFR 63 NESHAP					40 CFR				
		A	K	Ka	Kb	VV	RRR	NNN	A	J	M	FF	A	F	G	H	4Fs	52	64	68	82
EQT249	PWW-17, Process Wastewater V-EO3151																				
EQT250	PWW-18, Process Wastewater V-EO3251																				
EQT251	PWW-19, Process Wastewater V-EO3304																				
EQT252	PWW-20, Process Wastewater V-EO3321																				
EQT253	RRR-01, Vent from RRR EO3																				
EQT254	RRR-02, Vent from RRR EG3																				
EQT255	RRR-03, Vent from RRR BQ3.																				
EQT770	01-91, Lean Absorbent Surge Tank, T-E0200																				
EQT771	08-09, EO-3 Cooling Tower																				
FUG009	10-92, Fugitive Emissions EOEG3																				

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SHELL CHEMICAL LP
AGENCY INTEREST NO.: 1136
EOEG-3, GEISMAR PLANT
GEISMAR, ASCENSION PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR					
		A	K	Ka	Kb	VV	RRR	NNN	A	J	M	FF	A	F	G	H	4Fs	52	64

KEY TO MATRIX

- 1 -The regulations have applicable requirements which apply to this particular emission source.
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SHELL CHEMICAL LP
AGENCY INTEREST NO.: 1136
EOEG-3, GEISMAR PLANT
GEISMAR, ASCENSION PARISH, LOUISIANA

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
GRP28	NESHAP Subpart FFFF, Miscellaneous Organic Chemical Manufacturing (MON), 40 CFR 63.2530(b)(3)	Not applicable. This unit is regulated under a HON requirement, 40 CFR 63 Subpart G
EQT191, 193, and 200	LAC 33:III.2115, Waste Gas Disposal	Not applicable. The process is subject to the requirements of 40 CFR 63 Subpart G
	LAC 33:III.2147.A.2.g, SOCMI Reactor Processes and Distillation Operations	Exempt. The process is subject to the requirements of 40 CFR 63 Subpart G
EQT192, 205, and 206	LAC 33:III.2103, Storage of VOC	Not applicable. The true vapor pressure of stored material is less than 1.5 psia.
	NSPS Subpart Kb, VOL Storage Vessels, 40 CFR 60.110(b)(a)	Not applicable. The tanks capacity less than the threshold
	NESHAP Subpart G, Storage Vessels, 40 CFR 63.119, 113, 132	Not applicable. Does not meet the definition of storage vessel as per 40 CFR 63.101
EQT194 thru 196	LAC 33:II.2153.G.6, Limiting VOC From Industrial Wastewater	Exempt. The wastewater stream subject to the requirements of 40 CFR 63 Subpart G
EQT197, 203, 204, and 209	LAC 33:III.2103, Storage of VOC	Not applicable. The true vapor pressure of stored material is less than 1.5 psia.
	NSPS Subpart Kb, VOL Storage Vessels, 40 CFR 60.110(b)	Not applicable. The tanks capacity greater than 40,000 gal and the vapor pressure less than 0.50 psia
	NESHAP Subpart G, Storage Vessels, 40 CFR 63.119, 113, 132	Not applicable. Does not meet the definition of storage vessel as per 40 CFR 63.101

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SHELL CHEMICAL LP
AGENCY INTEREST NO.: 1136
EOEG-3, GEISMAR PLANT
GEISMAR, ASCENSION PARISH, LOUISIANA

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT199	LAC 33:III.2115, Waste Gas Disposal LAC 33:III.2153.G.6, Limiting VOC From Industrial Wastewater	Exempt. The stream has a combined weight of VOC less than 100 lbs in any 24 hour period. [LAC 33:III.2115.H.1.c.]
	NSPS, Subpart NNN, SOCMI Distillation Operations, 40 CFR 60.660	Exempt. The wastewater stream subject to the requirements of 40 CFR 63 Subpart G
	NESHAP Subpart G, Storage Vessels, 40 CFR 63.119, 113, 132	Not applicable. The vent does not originate from a distillation operation
EQT201, 202, and 207	LAC 33:III.2103, Storage of VOC	Not applicable. Does not meet the definition of storage vessel as per 40 CFR 63.101
	NSPS Subpart Kb, VOL Storage Vessels, 40 CFR 60.110b	Not applicable. The true vapor pressure of stored material is less than 1.5 psia.
EQT198 and 210	LAC 33:III.2115, Waste Gas Disposal LAC 33:III.2147.A.2.g, SOCMI Reactor Processes and Distillation Operations	Not applicable. The tank is subject to NESHAP, 40 CFR 63 Subpart G [40 CFR 63.110(b)(1)]
	NESHAP Subpart G, Storage Vessels, 40 CFR 63.119, 113, 132	Not applicable. The process is subject to the requirements of 40 CFR 60 Subpart NNN
EQT208	LAC 33:III.2201.C.6, Control of Emissions of Nitrogen Oxides	Exempt. The process vent as per 40 CFR 63.101 during the ozone season.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SHELL CHEMICAL LP
AGENCY INTEREST NO.: 1136
EOEG-3, GEISMAR PLANT
GEISMAR, ASCENSION PARISH, LOUISIANA

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT211 thru 237	NESPS, Subpart F – NESHAP from SOCMI	Not Applicable. Contains less than 5% weight total Table 4 OHAPs or minimum pressure on the cooling water side is at least 5.1 psi or greater than the maximum pressure on the process side 40 CFR 63.104(a)(1) or 104(a)(5)
EQT 238 thru 244	LAC 33:III.2115, Waste Gas Disposal LAC 33:III.2147.A.2.g, SOCMI Reactor Processes and Distillation Operations	Not applicable. The process is subject to the requirements of 40 CFR 60 Subpart NNN Exempt. The process is subject to the requirements of 40 CFR 60 Subpart NNN
EQT253 thru 255	LAC 33:III.2115, Waste Gas Disposal LAC 33:III.2147.A.2.g, SOCMI Reactor Processes and Distillation Operations	Not applicable. The process is subject to the requirements of 40 CFR 60 Subpart RRR Exempt. The process is subject to the requirements of 40 CFR 60 Subpart RRR
EQT770	LAC 33:III.2103, Storage of VOC NESHAP Subpart G, Storage Vessels, 40 CFR 63.119, 113, 132	Not applicable. The true vapor pressure of stored material is less than 1.5 psia. Not applicable. Does not meet the definition of storage vessel as per 40 CFR 63.101
FUG009	LAC 33:III.2122.A.6.a, Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes	Exempt. LDEQ approved an exemption via a letter dated December 16, 1994

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SHELL CHEMICAL LP
AGENCY INTEREST NO.: 1136
EOEG-3, GEISMAR PLANT
GEISMAR, ASCENSION PARISH, LOUISIANA

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section VII of this permit.

General Information

AJ ID: 1136 Shell Chemical Co - Geismar Plant
Activity Number: PER20090011
Permit Number: 2185-V3
Air - Title V Regular Permit Minor Mod

Also Known As:	ID	Name	User Group	Start Date
	LA05258	ADV#	Asbestos	04-14-2003
0180-00010		Shell Chemical Co - Geismar Plant	CDS Number	08-22-2002
13-1299890		Federal Tax ID	Federal Tax ID	11-21-1999
LAD003913183		Shell Chemical Lp Geismar Plant	Hazardous Waste Notification	09-02-1983
0180-0010		Shell Chemical Co - Geismar Plant	Historic Emission Inventory System (EIS) ID	02-25-2004
0180-0010		Historic Toxic Emissions Data Inventory (TEDI) ID	Historic Toxic Emissions Data Inventory (TEDI) ID	01-01-1991
LAD003913183		Geismar Plt Permits No	Inactive & Abandoned Sites	06-09-1981
LA0005754		WPC File Number	LPDES Permit #	08-25-2003
WP1347		WPC State Permit Number	LWDP/S Permit #	06-25-2003
LA-2132-L01		Radiactive Material License	Radiation License Number	05-26-1987
2132		X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
G-005-1740		Site Id #	Solid Waste Facility No.	11-21-1999
17631		Shell Chemical Co Geismar Works	TEMPO Merge	01-19-2001
34601		Shell Chemical LP - Geismar	TEMPO Merge	08-05-2001
38774		Shell Chemical Co	TEMPO Merge	08-05-2001
47881		Shell Chemical Co	TEMPO Merge	03-08-2001
67594		Shell Chemical Co	TEMPO Merge	08-05-2001
70737SHLLCRIVER		TRI #	Toxic Release Inventory	07-19-2004
03-008346		UST Facility ID #	UST FID #	10-11-2002
			Main Phone:	2255016222
Physical Location:		7594 Hwy 75 Geismar, LA 70734		
Mailing Address:		PO Box 500 Geismar, LA 707340500		
Location of Front Gate:		30.185139 latitude, -90.987611 longitude. Coordinate Method: Lat. Long. - DMS. Coordinate Datum: NAD83		
Related People:		Name	Mailing Address	Phone (Type)
	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2255016324 (WP)	Hazardous Waste Permit Contact For
	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2255016324 (WP)	Water Billing Party for
	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2255016324 (WP)	Water Permit Contact For
	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2255016030 (WF)	Water Permit Contact For
	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2255016030 (WF)	Water Billing Party for
	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2255016030 (WF)	Hazardous Waste Permit Contact For
	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2255016324 (WP)	Asbestos Contact for

General Information

AI ID: 1136 Shell Chemical Co - Geismar Plant
Activity Number: PER20090011
Permit Number: 2185-V3
Air - Title V Regular Permit Minor Mod

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2252016030 (WF)	Asbestos Contact for
	Lorraine Anderson	PO Box 500 Geismar, LA 707340500	2252016586 (WP)	Emission Inventory Contact for
	Gerald Brouillette	PO Box 500 Geismar, LA 707340500	LORRAINE ANDERSON: GERALD.BROUILLE	Emission Prevention Billing Party for
	Gerald Brouillette	PO Box 500 Geismar, LA 707340500	2252016030 (WF)	Accident Prevention Billing Party for
	Gerald Brouillette	PO Box 500 Geismar, LA 707340500	2252016207 (WP)	Accident Prevention Billing Party for
	Gerald Brouillette	PO Box 500 Geismar, LA 707340500	2252016207 (WP)	Air Permit Contact For
	Gerald Brouillette	PO Box 500 Geismar, LA 707340500	2252016030 (WF)	Air Permit Contact For
	Gerald Brouillette	PO Box 500 Geismar, LA 707340500	GERALD.BROUILLE	Air Permit Contact For
	Glenn Bucholz	PO Box 500 Geismar, LA 707340500	2252016456 (WP)	Responsible Official for
	Robert Evans	PO Box 500 Geismar, LA 707340500	2252016456 (WP)	Radiation Contact For
	Robert Evans	PO Box 500 Geismar, LA 707340500	2252016782 (WP)	Radiation Safety Officer for
	Kathleen Garey	PO Box 500 Geismar, LA 707340500	2252016782 (WP)	Accident Prevention Contact for
	Kathleen Garey	PO Box 500 Geismar, LA 707340500	2252016482 (WF)	Accident Prevention Contact for
	Production Manager	7594 Hwy 75 Geismar, LA 707340500	2252016482 (WF)	Responsible Official for
	Steve Rathweg	PO Box 500 Geismar, LA 707340500	2252016586 (WP)	Responsible Official for
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Operates
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Owns
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Radiation Registration Billing Party for
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Emission Inventory Billing Party
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Radiation License Billing Party for
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	UST Billing Party for
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Air Billing Party for

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Millam, Permit Support Services Division, at (225) 218-3259 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 1136 - Shell Chemical Co - Geismar Plant
 Activity Number: PER20090011
 Permit Number: 2185-V3
 Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EOEG-3 Facility						
EQT 0191	04-94 - EG Vacuum System Aftercondenser E-EG-3252	1200 gallons				8760 hr/yr
EQT 0192	11-92 - EG-3 Equipment Drains Vessel V-EG3822		2593 ft ³ /min (actual)	520 MM lbs/yr	Ethylen oxide	8760 hr/yr
EQT 0193	12-92 - EO-3 CO2 Vent V-EO3221	2460 gallons		302 gallons/min		8760 hr/yr
EQT 0194	13-92 - EOEG-3 Chemical Sewer Sump	300000 gallons		3.6 MM gallons/yr		8760 hr/yr
EQT 0195	14-92 - Process Area Drainage Impound Tank T-EO3841	300000 gallons		3.6 MM gallons/yr		8760 hr/yr
EQT 0196	15-92 - Process Area Drainage Impound Tank T-EO3842	530000 gallons		200000 gallons/yr		8760 hr/yr
EQT 0197	16-92 - Carbonate Tank T-EO3820					
EQT 0198	18-92 - Contaminated Steam Vent PV-1234B		4505 ft ³ /min (actual)	658 MM lbs/yr	Glycols	8760 hr/yr
EQT 0199	19A-92 - EG-3 Vacuum System Hotwell V-EG3251			130 lb/hr	Air	8760 hr/yr
EQT 0200	20-92 - Quenched Bleed Flasher Accumulation V-EG3321	215 gallons		520 MM lbs/yr	Ethylen oxide	8760 hr/yr
EQT 0201	22-92 - EG Rundown Tank T-EG3924	132192 gallons		30.6 MM gallons/yr		8760 hr/yr
EQT 0202	23-92 - EG Rundown Tank T-EG3925	132192 gallons		2.7 MM gallons/yr		8760 hr/yr
EQT 0203	24-92 - DEG Rundown Tank T-EG3926	14381 gallons		2.7 MM gallons/yr		8760 hr/yr
EQT 0204	25-92 - DEG Rundown Tank T-EG3927	14381 gallons		2.7 MM gallons/yr		8760 hr/yr
EQT 0205	26-92 - TEG Rundown Tank T-EG3928	30038 gallons		655000 gallons/yr		8760 hr/yr
EQT 0206	27-92 - TEG Rundown Tank T-EG3929	30038 gallons		655000 gallons/yr		8760 hr/yr
EQT 0207	28-92 - Glycol Runup Tank T-EG3931	180343 gallons		951000 gallons/yr		8760 hr/yr
EQT 0208	30A-92 - PAD Sump Pump Driver		270 horsepower			68 hr/yr
EQT 0209	31-92 - Coolant Storage Tank T-EO3910	182729 gallons		380000 gallons/yr		8760 hr/yr
EQT 0210	801-05 - EO-3 Absorber Vent C-EO30X					8760 hr/yr
EQT 0211	CWHE321 - Cooling Water Heat Exchanger E-EO3102					8760 hr/yr
EQT 0212	CWHE322 - Cooling Water Heat Exchanger E-EO3108					8760 hr/yr
EQT 0213	CWHE323 - Cooling Water Heat Exchanger E-EO3201					8760 hr/yr
EQT 0214	CWHE324 - Cooling Water Heat Exchanger E-EO3202					8760 hr/yr
EQT 0215	CWHE325 - Cooling Water Heat Exchanger E-EO3203					8760 hr/yr
EQT 0216	CWHE326 - Cooling Water Heat Exchanger E-EO3205					8760 hr/yr
EQT 0217	CWHE327 - Cooling Water Heat Exchanger E-EO3212					8760 hr/yr
EQT 0218	CWHE328 - Cooling Water Heat Exchanger E-EO3221					8760 hr/yr
EQT 0219	CWHE329 - Cooling Water Heat Exchanger E-EO3222					8760 hr/yr
EQT 0220	CWHE330 - Cooling Water Heat Exchanger E-EO3232					8760 hr/yr
EQT 0221	CWHE331 - Cooling Water Heat Exchanger E-EO3233					8760 hr/yr
EQT 0222	CWHE332 - Cooling Water Heat Exchanger E-EO3235					8760 hr/yr
EQT 0223	CWHE333 - Cooling Water Heat Exchanger E-EO3236					8760 hr/yr
EQT 0224	CWHE334 - Cooling Water Heat Exchanger E-EO3237					8760 hr/yr
EQT 0225	CWHE335 - Cooling Water Heat Exchanger E-EO3238					8760 hr/yr
EQT 0226	CWHE336 - Cooling Water Heat Exchanger E-EO3241					8760 hr/yr
EQT 0227	CWHE337 - Cooling Water Heat Exchanger E-EO3242					8760 hr/yr
EQT 0228	CWHE338 - Cooling Water Heat Exchanger E-EO3248					8760 hr/yr
EQT 0229	CWHE339 - Cooling Water Heat Exchanger E-EO3249					8760 hr/yr

INVENTORIES

AI ID: 1136 - Shell Chemical Co - Geismar Plant
 Activity Number: PER20090011
 Permit Number: 2185-V3
 Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
E0EG-3 Facility						
EQT 0230	CWHE340 - Cooling Water Heat Exchanger E-EO3280					8760 hr/yr
EQT 0231	CWHE341 - Cooling Water Heat Exchanger E-EO3281					8760 hr/yr
EQT 0232	CWHE342 - Cooling Water Heat Exchanger E-EO3283					8760 hr/yr
EQT 0233	CWHE343 - Cooling Water Heat Exchanger E-EO3284					8760 hr/yr
EQT 0234	CWHE344 - Cooling Water Heat Exchanger E-EO3271					8760 hr/yr
EQT 0235	CWHE345 - CWHE345, Cooling Water Heat Exchanger					8760 hr/yr
EQT 0236	CWHE346 - Cooling Water Heat Exchangers (Pumps and Seals)					8760 hr/yr
EQT 0237	CWHEXXXX - Cooling Water Heat Exchangers (20) in EG-3					8760 hr/yr
EQT 0238	NNN-22@ - Vent from NNN C-EO3240					8760 hr/yr
EQT 0239	NNN-22b - Vent from NNN C-EO3240					8760 hr/yr
EQT 0240	NNN-22c - Vent from NNN C-EO3240					8760 hr/yr
EQT 0241	NNN-22d - Vent from NNN C-EO3240					8760 hr/yr
EQT 0242	NNN-23 - Vent from NNN C-EG3110					8760 hr/yr
EQT 0243	NNN-24 - Vent from NNN C-EG3140					8760 hr/yr
EQT 0244	NNN-25 - Vent from NNN C-EG3150					8760 hr/yr
EQT 0245	PWW-13 - Process Wastewater E-EO3105					8760 hr/yr
EQT 0246	PWW-14 - Process Wastewater V-EO3221					8760 hr/yr
EQT 0247	PWW-15 - Process Wastewater E-EO3228					8760 hr/yr
EQT 0248	PWW-16 - Process Wastewater V-EO3261					8760 hr/yr
EQT 0249	PWW-17 - Process Wastewater V-EO3151					8760 hr/yr
EQT 0250	PWW-18 - Process Wastewater V-EO3251					8760 hr/yr
EQT 0251	PWW-19 - Process Wastewater V-EO3304					8760 hr/yr
EQT 0252	PWW-20 - Process Wastewater V-EO3321					8760 hr/yr
EQT 0253	RRR-01 - Vent from RRR EO3					8760 hr/yr
EQT 0254	RRR-02 - Vent from RRR EG3					8760 hr/yr
EQT 0255	RRR-03 - Vent from RRR CB3					8760 hr/yr
EQT 0770	01-91 - Lean Absorbent Surge Tank T-EO200	38072 gallons	809104 gallons/yr	37000 gallons/min		8760 hr/yr
EQT 0771	03-09 - EO-3 Cooling Tower					8760 hr/yr
FUG 0009	10-92 - Fugitive Emissions EOEG-3					8760 hr/yr
Stack Information:						
ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)
E0EG-3 Facility						
EQT 0191	04-94 - EG Vacuum System Aftercondenser E-EG-3252	9.8	25	.23		60 90
EQT 0192	11-92 - EG-3 Equipment Drains Vessel V-EG3822	.01	.03	17		80 120
EQT 0193	12-92 - EO-3 CO2 Vent V-EO3221	13.76	2593	2		160 140

INVENTORIES

AI ID: 1136 - Shell Chemical Co - Geismar Plant
 Activity Number: PER20090011
 Permit Number: 2185-V3
 Air - Title V Regular Permit Minor Mod

Stack Information:		Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EOEG-3 Facility								
EQT 0194	13-92 - EOEG-3 Chemical Sewer Sump		3.14	.27	.33		0	73
EQT 0195	14-92 - Process Area Drainage Impound Tank T-EO3841						28	70
EQT 0196	15-92 - Process Area Drainage Impound Tank T-EO3842						28	70
EQT 0197	16-92 - Carbonate Tank T-EO3920		3.14	18.2	.33		19	70
EQT 0198	18-92 - Contaminated Steam Vent PV-1234B		1.39	45.05	1		50	300
EQT 0199	19A-92 - EG-3 Vacuum System Holwell V-EG3251		18.05	30.08	.03		30	90
EQT 0200	20-92 - Quenched Bleed Flasher Accumulation V-EG3321		.27	1.43	.33		50	118
EQT 0201	22-92 - EG Rundown Tank T-EG3924		3.14	16.2	.33		27	120
EQT 0202	23-92 - EG Rundown Tank T-EG3925		3.14	16.2	.33		27	120
EQT 0203	24-92 - DEG Rundown Tank T-EG3926		3.14	16.2	.33		16	120
EQT 0204	25-92 - DEG Rundown Tank T-EG3927		3.14	16.2	.33		16	120
EQT 0205	26-92 - TEG Rundown Tank T-EG3928		3.14	16.2	.33		9.5	120
EQT 0206	27-92 - TEG Rundown Tank T-EG3929		3.14	16.2	.33		9.5	120
EQT 0207	29-92 - Glycol Runin Tank T-EG3931		3.14	18.2	.33		29	120
EQT 0208	30A-92 - PAD Sump Pump Driver		103	1208	.5		20	1100
EQT 0209	31-92 - Coolant Storage Tank T-EO3910		3.14	18.2	.33		27	70
EQT 0210	801-05 - EO-3 Absorber Vent C-EO3XX		1.4	1.1	1		201	73
FUG 0009	10-92 - Fugitive Emissions EOEG-3							

Relationships:**Subject Item Groups:**

ID	Group Type	Group Description
UNF 0005	Unit or Facility Wide	EOEG-3 - EOEG-3 Facility

Group Membership:

Annual Maintenance Fee:			
Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0630	0630 Organic Oxides, Alcohols, Glycols (Rated Capacity)	499.05	MM bbl/yr.

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

INVENTORIES

AI ID: 1136 - Shell Chemical Co - Geismar Plant
Activity Number: PER20090011
Permit Number: 2185-V3
Air - Title V Regular Permit Minor Mod

SIC Codes:		
2869	Industrial organic chemicals, nec	UNF 005

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20090011

Permit Number: 2185-V3

Air - Title V Regular Permit Minor Mod

Subject Item	CO			NOx			PM10			SO2			VOC			
	Avg lbs/hr	Max lbs/hr	Tons/Year													
EOEG-3 Facility																
EQT 0181 04-94													0.60	7.00	2.63	
EQT 0192 11-92													0.001	0.01		
EQT 0193 12-92													2.50	55.38	10.94	
EQT 0194 13-92													0.001	4.00	0.01	
EQT 0195 14-92													0.03	4.00	0.12	
EQT 0196 15-92													0.03	4.00	0.12	
EQT 0197 16-92													0.001	0.01		
EQT 0198 18-92													0.002	7.00	0.01	
EQT 0199 19A-92													0.001	5.00	0.01	
EQT 0200 20-92													0.13	7.00	0.58	
EQT 0201 21-92													0.02	5.00	0.09	
EQT 0202 23-92													0.02	5.00	0.09	
EQT 0203 24-92													0.001	5.00	0.01	
EQT 0204 25-92													0.001	5.00	0.01	
EQT 0205 26-92													0.001	5.00	0.01	
EQT 0206 27-92													0.001	5.00	0.01	
EQT 0207 28-92													0.01	5.00	0.06	
EQT 0208 30A-92	1.80	3.60	0.06	8.37	16.74	0.29	0.59	1.18	0.02	0.55	1.10	0.02	0.80	1.60	0.03	
EQT 0209 31-92													0.04	1.00	0.17	
EQT 0210 301-95	0.001	0.50	0.01										0.05	4.50	0.22	
EQT 0770 01-91													0.001	0.01		
EQT 0771 08-99																
FUG 0009 10-92														7.02	30.77	

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20090011

Permit Number: 2185-V3

Air - Title V Regular Permit Minor Mod

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20090011

Permit Number: 2185-V3

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0191 04-94	Acetaldehyde	0.60	2.00	2.63
	Allyl chloride	0.001	1.00	0.001
	Ethylene glycol	0.001	1.00	0.01
EQT 0192 11-92	Ethylene glycol	0.001		0.01
EQT 0193 12-92	Acetaldehyde	0.06	12.25	0.28
	Allyl chloride	0.002	0.01	0.01
	Ethylene glycol	0.45	0.70	1.99
	Ethylene oxide	0.65	0.99	2.83
	Formaldehyde	0.18	0.63	0.85
EQT 0194 13-92	Acetaldehyde	0.001	1.00	0.01
	Allyl chloride	0.001	1.00	0.001
	Ethylene glycol	0.001	1.00	0.01
	Ethylene oxide	0.001	1.00	0.001
	Formaldehyde	0.001	1.00	0.01
EQT 0195 14-92	Acetaldehyde	0.004	1.00	0.02
	Ethylene glycol	0.02	1.00	0.08
	Ethylene oxide	0.004	1.00	0.02
	Formaldehyde	0.001	1.00	0.01
EQT 0196 15-92	Acetaldehyde	0.004	1.00	0.02
	Ethylene glycol	0.02	1.00	0.08
	Ethylene oxide	0.004	1.00	0.02
	Formaldehyde	0.001	1.00	0.01
EQT 0197 16-92	Ethylene glycol	0.001		0.01
EQT 0198 18-92	Acetaldehyde	0.002	1.00	0.01
	Allyl chloride	0.001	1.00	0.001
	Ethylene glycol	0.001	1.00	0.01
	Formaldehyde	0.001	1.00	0.01
EQT 0199 19A-92	Allyl chloride	0.001	1.00	0.001
	Ethylene glycol	0.001	1.00	0.01
EQT 0200 20-92	Acetaldehyde	0.002	1.00	0.01
	Allyl chloride	0.001	1.00	0.001
	Formaldehyde	0.001	1.00	0.01
EQT 0201 22-92	Allyl chloride	0.001	1.00	0.001

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20090011

Permit Number: 2185-V3

Air - Title V Regular Permit Minor Mod

Emission Pt	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0201 22-92	Ethylene glycol	0.02	1.00	0.09
EQT 0202 23-92	Allyl chloride	0.001	1.00	0.001
	Ethylene glycol	0.02	1.00	0.09
EQT 0203 24-92	Allyl chloride	0.001	1.00	0.001
EQT 0204 25-92	Allyl chloride	0.001	1.00	0.001
EQT 0205 26-92	Allyl chloride	0.001	1.00	0.001
EQT 0206 27-92	Allyl chloride	0.001	1.00	0.001
EQT 0207 28-92	Allyl chloride	0.001	1.00	0.001
	Ethylene glycol	0.01	1.00	0.05
EQT 0208 30A-92	Acetaldehyde	0.13	0.26	0.01
	Formaldehyde	0.13	0.26	0.01
EQT 0210 801-05	Acetaldehyde	0.001	0.50	0.01
	Allyl chloride	0.001	0.50	0.001
	Ethylene glycol	0.003	0.50	0.01
	Ethylene oxide	0.04	1.00	0.18
	Formaldehyde	0.004	0.50	0.02
EQT 0770 01-91	Ethylene glycol	0.001		0.01
	Ethylene oxide	0.001		0.01
FUG 0009 10-92	Allyl chloride	0.001		0.01
	Ethylene glycol	0.54		2.36
	Ethylene oxide	0.91		4.00
	Methanol	0.09		0.41
UNF 0005 EOEG-3	Acetaldehyde			3.00
	Allyl chloride			0.03
	Ethylene glycol			4.82
	Ethylene oxide			7.07
	Formaldehyde			0.93
	Methanol			0.41

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AJ ID: 1136 - Shell Chemical Co - Geismar Plant
 Activity Number: PER20080011
 Permit Number: 2185-V3
 Air - Title V Regular Permit Minor Mod

EQT 0191 04-94 - EG Vacuum System Aftercondenser E-EG-3252

- 1 [40 CFR 60.660(c)(4)] TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (1). Subpart NNN. [40 CFR 60.660(c)(4)]
 Which Months: All Year Statistical Basis: None specified
 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]
 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]
- 2 [40 CFR 60.662(c)] Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalyst type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]
- 3 [40 CFR 60.664(e)] Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7). Subpart NNN. [40 CFR 60.665(l)]
- 4 [40 CFR 60.665(h)] TRE index value > 4.0 (no units). Subpart G. [40 CFR 63.113(e)]
 Which Months: All Year Statistical Basis: None specified
 Recalculate the TRE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)]
- 5 [40 CFR 60.665(l)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of measurements, engineering assessments, and calculations performed to determine the TRE index value of the vent stream. Include all data, assumptions and procedures used for the engineering assessments, as specified in 40 CFR 63.115(d)(1). Subpart G. [40 CFR 63.117(b)]
- 6 [40 CFR 63.113(e)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of any process changes as defined in 40 CFR 63.115(e), and any recalculation of the TRE index value pursuant to 40 CFR 63.115(e). Subpart G. [40 CFR 63.118(c)]
- 7 [40 CFR 63.115(e)] Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent with a TRE greater than 4.0 to become a Group 2 process vent with a TRE less than 4.0. Include the information specified in 40 CFR 63.118(h)(1) through (h)(3). Subpart G. [40 CFR 63.118(h)]
- 8 [40 CFR 63.117(b)] Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III. Chapter 51.

EQT 0192 11-92 - EG-3 Equipment Drains Vessel V-EG3822

- 12 [LAC 33:III.5107] Emits Class III toxic air pollutant. No MACT is required. [LAC 33:III.5107, LAC 33:III.5109.A]

EQT 0193 12-92 - EO-3 CO2 Vent V-EO3221

SPECIFIC REQUIREMENTS

AI ID: 1138 - Shell Chemical Co - Geismar Plant
 Activity Number: PER200900011
 Permit Number: 2185-V3
 Air - Title V Regular Permit Minor Mod

EQT 0193 12-92 - EO-3 CO2 Vent V-EO3221

- TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 60.660(c)(4)]
- Which Months: All Year Statistical Basis: None specified Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.660(e), 40 CFR 60.660(f)]
- Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)] Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalyst type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]
- Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7). Subpart NNN. [40 CFR 60.665(l)]
- TRE index value > 4.0 (no units). Subpart G. [40 CFR 63.113(e)]
- Which Months: All Year Statistical Basis: None specified Recalculate the TRE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of measurements, engineering assessments, and calculations performed to determine the TRE index value of the vent stream. Include all data, assumptions and procedures used for the engineering assessments, as specified in 40 CFR 63.115(d)(1). Subpart G. [40 CFR 63.117(b)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of any process changes as defined in 40 CFR 63.115(e), and any recalculation of the TRE index value pursuant to 40 CFR 63.115(e). Subpart G. [40 CFR 63.118(c)]
- Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent with a TRE greater than 4.0 to become a Group 2 process vent with a TRE less than 4.0. Include the information specified in 40 CFR 63.118(h)(1) through (h)(3). Subpart G. [40 CFR 63.118(h)]
- Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51.

EQT 0194 13-92 - EOEG-3 Chemical Sewer Sump

- Group 2: Shall comply with the applicable requirements of recordkeeping and reporting as specified in 40 CFR 63.146(b)(1) and 40 CFR 63.147(b)(8). [40 CFR 63.132(a)(3), 40 CFR 63.132(a)(3), 40 CFR 63.146(b)(1), 40 CFR 63.147(b)(8)]
- Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51.

EQT 0195 14-92 - Process Area Drainage Impound Tank T-EO3841

SPECIFIC REQUIREMENTS

AJ ID: 1136 - Shell Chemical Co - Gelsmar Plant
Activity Number: PER20090011
Permit Number: 2185-V3
Air - Title V Regular Permit Minor Mod

EQT 0195 14-92 - Process Area Drainage Impound Tank T-EO3841

- 26 [40 CFR 63.132(a)(3)] Group 2: Shall comply with the applicable requirements of recordkeeping and reporting as specified in 40 CFR 63.146(b)(1) and 40 CFR 63.147(b)(8). [40 CFR 63.132(a)(3), 40 CFR 63.146(b)(1), 40 CFR 63.147(b)(8)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0196 15-92 - Process Area Drainage Impound Tank T-EO3842

- 28 [40 CFR 63.132(a)(3)] Group 2: Shall comply with the applicable requirements of recordkeeping and reporting as specified in 40 CFR 63.146(b)(1) and 40 CFR 63.147(b)(8). [40 CFR 63.132(a)(3), 40 CFR 63.146(b)(1), 40 CFR 63.147(b)(8)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0197 16-92 - Carbonate Tank T-EO3920

- 30 [LAC 33:III.5109.A] Emits Class III toxic air pollutant. No MACT is required. [LAC 33:III.5107, LAC 33:III.5109.A]

EQT 0198 18-92 - Contaminated Steam Vent PV-1234B

- 31 [40 CFR 60.660(c)(4)] TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 60.660(c)(4)]
 Which Months: All Year Statistical Basis: None specified
 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]
 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(l) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]
 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalyst type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(l). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]
 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7). Subpart NNN. [40 CFR 60.665(l)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0199 19A-92 - EG-3 Vacuum System Hotwell V-EG3251

- 37 [LAC 33:III.5109.A] Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant
 Activity Number: PER20090011
 Permit Number: 2185-V3
 Air - Title V Regular Permit Minor Mod

EQT 0200 20-92 - Quenched Bleed Flasher Accumulation V-EG3321

- 38 [40 CFR 60.660(c)(4)] TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and
 (1). Subpart NNN. [40 CFR 60.660(c)(4)]
 Which Months: All Year Statistical Basis: None specified
 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]
 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]
- 40 [40 CFR 60.664(e)] Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalyst type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]
 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7). Subpart NNN. [40 CFR 60.665(l)]
- 41 [40 CFR 60.665(h)] TRE index value > 4.0 (no units). Subpart G. [40 CFR 63.113(e)]
 Which Months: All Year Statistical Basis: None specified
 Recalculate the TRE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)]
- 42 [40 CFR 60.665(l)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of measurements, engineering assessments, and calculations performed to determine the TRE index value of the vent stream. Include all data, assumptions and procedures used for the engineering assessments, as specified in 40 CFR 63.115(d)(1). Subpart G. [40 CFR 63.117(b)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of any process changes as defined in 40 CFR 63.115(e), and any recalculation of the TRE index value pursuant to 40 CFR 63.115(e). Subpart G. [40 CFR 63.118(c)]
 Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent with a TRE greater than 4.0 to become a Group 2 process vent with a TRE less than 4.0. Include the information specified in 40 CFR 63.118(h)(1) through (h)(3). Subpart G. [40 CFR 63.118(h)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.
- 43 [40 CFR 63.113(e)]
- 44 [40 CFR 63.115(e)]
- 45 [40 CFR 63.117(b)]
- 46 [40 CFR 63.118(c)]
- 47 [40 CFR 63.118(h)]
- 48 [LAC 33:III.5109.A]
- 49 [40 CFR 63.119(a)(3)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.
- 50 [LAC 33:III.5109.A]
- EQT 0201 22-92 - EG Rundown Tank T-EG3924**
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

SPECIFIC REQUIREMENTS

AJ ID: 1136 - Shell Chemical Co - Gelesmar Plant
 Activity Number: PER20090011
 Permit Number: 2185-V3
 Air - Title V Regular Permit Minor Mod

EQT 0202 23-92 - EG Rundown Tank T-EG3925

- 51 [40 CFR 63.119(a)(3)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0203 24-92 - DEG Rundown Tank T-EG3926

- 53 [LAC 33:III.5107] Emits Class III toxic air pollutant. No MACT is required. [LAC 33:III.5107, LAC 33:III.5109.A]

EQT 0204 25-92 - DEG Rundown Tank T-EG3927

- 54 [LAC 33:III.5107] Emits Class III toxic air pollutant. No MACT is required. [LAC 33:III.5107, LAC 33:III.5109.A]

EQT 0205 26-92 - TEG Rundown Tank T-EG3928

- 55 [LAC 33:III.5107] Emits Class III toxic air pollutant. No MACT is required. [LAC 33:III.5107, LAC 33:III.5109.A]

EQT 0206 27-92 - TEG Rundown Tank T-EG3929

- 56 [LAC 33:III.5107] Emits Class III toxic air pollutant. No MACT is required. [LAC 33:III.5107, LAC 33:III.5109.A]

EQT 0207 29-92 - Glycol Rerun Tank T-EG3931

- 57 [40 CFR 63.119(a)(3)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0208 30A-92 - PAD Sump Pump Driver

- 59 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1138 - Shell Chemical Co - Geismar Plant
Activity Number: PER20090011
Permit Number: 2185-V3
Air - Title V Regular Permit Minor Mod

EQT 0208 30A-92 - PAD Sump Pump Driver

60 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0209 31-92 - Coolant Storage Tank T-EO3910

61 [LAC 33:III.5107] Emits Class III toxic air pollutant. No MACT is required. [LAC 33:III.5107, LAC 33:III.5109.A]

EQT 0210 801-05 - EO-3 Absorber Vent C-EO3XX

- 62 [40 CFR 60.660(c)(4)] TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 60.660(c)(4)]
 Which Months: All Year Statistical Basis: None specified
 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]
 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]
 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalyst type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]
 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7). Subpart NNN. [40 CFR 60.665(l)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0211 CWHE321 - Cooling Water Heat Exchanger E-EO3102

- The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0212 CWHE322 - Cooling Water Heat Exchanger E-EO3108

- The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant
 Activity Number: PER200900011
 Permit Number: 2185-V3
 Air - Title V Regular Permit Minor Mod

EQT 0213 CWHE323 - Cooling Water Heat Exchanger E-EO3201

- 72 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33.III.Chapter 51.

EQT 0214 CWHE324 - Cooling Water Heat Exchanger E-EO3202

- 74 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33.III.Chapter 51.

EQT 0215 CWHE325 - Cooling Water Heat Exchanger E-EO3203

- 76 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33.III.Chapter 51.

EQT 0216 CWHE326 - Cooling Water Heat Exchanger E-EO3205

- 78 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33.III.Chapter 51.

EQT 0217 CWHE327 - Cooling Water Heat Exchanger E-EO3212

- 80 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33.III.Chapter 51.

EQT 0218 CWHE328 - Cooling Water Heat Exchanger E-EO3221

- 82 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant
Activity Number: PER20090011
Permit Number: 2185-V3
Air - Title V Regular Permit Minor Mod

EQT 0218 CWHE328 - Cooling Water Heat Exchanger E-EO3221

83 [LAC 33:III.5109.A] Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0219 CWHE329 - Cooling Water Heat Exchanger E-EO3222

84 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0220 CWHE330 - Cooling Water Heat Exchanger E-EO3232

86 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0221 CWHE331 - Cooling Water Heat Exchanger E-EO3233

88 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0222 CWHE332 - Cooling Water Heat Exchanger E-EO3235

90 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0223 CWHE333 - Cooling Water Heat Exchanger E-EO3236

92 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

SPECIFIC REQUIREMENTS

AJ ID: 1136 - Shell Chemical Co - Geismar Plant
Activity Number: PER20090011
Permit Number: 2185-V3
Air - Title V Regular Permit Minor Mod

EQT 0224 CWHE334 - Cooling Water Heat Exchanger E-EO3237

- 94 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33.III.Chapter 51.

EQT 0225 CWHE335 - Cooling Water Heat Exchanger E-EO3238

- 96 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33.III.Chapter 51.

EQT 0226 CWHE336 - Cooling Water Heat Exchanger E-EO3241

- 98 [40 CFR 63.104(a)(1)] The heat exchange system is operated with the minimum pressure on the cooling water side at least 5.1 psi or greater than the maximum pressure on the process side. Subpart F. [40 CFR 63.104(a)(1)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33.III.Chapter 51.

EQT 0227 CWHE337 - Cooling Water Heat Exchanger E-EO3242

- 99 [LAC 33.III.5109.A] The heat exchange system is operated with the minimum pressure on the cooling water side at least 5.1 psi or greater than the maximum pressure on the process side. Subpart F. [40 CFR 63.104(a)(1)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33.III.Chapter 51.

EQT 0228 CWHE338 - Cooling Water Heat Exchanger E-EO3248

- 100 [40 CFR 63.104(a)(1)] The heat exchange system is operated with the minimum pressure on the cooling water side at least 5.1 psi or greater than the maximum pressure on the process side. Subpart F. [40 CFR 63.104(a)(1)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33.III.Chapter 51.

EQT 0229 CWHE339 - Cooling Water Heat Exchanger E-EO3249

- 104 [40 CFR 63.104(a)(1)] The heat exchange system is operated with the minimum pressure on the cooling water side at least 5.1 psi or greater than the maximum pressure on the process side. Subpart F. [40 CFR 63.104(a)(1)]

SPECIFIC REQUIREMENTS

AID: 1136 - Shell Chemical Co - Geismar Plant
Activity Number: PER20090011
Permit Number: 2185-V3
Air - Title V Regular Permit Minor Mod

EQT 0229 CWHE339 - Cooling Water Heat Exchanger E-EO3249

105 [LAC 33:III.5109.A] Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0230 CWHE340 - Cooling Water Heat Exchanger E-EO3260

106 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0231 CWHE341 - Cooling Water Heat Exchanger E-EO3261

108 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0232 CWHE342 - Cooling Water Heat Exchanger E-EO3263

109 [LAC 33:III.5109.A] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0233 CWHE343 - Cooling Water Heat Exchanger E-EO3264

110 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0234 CWHE344 - Cooling Water Heat Exchanger E-EO3271

111 [LAC 33:III.5109.A] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant
Activity Number: PER20090011
Permit Number: 2185-V3
Air - Title V Regular Permit Minor Mod

EQT 0235 CWHE345 - Cooling Water Heat Exchanger

- 116 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0236 CWHE346 - Cooling Water Heat Exchangers (Pumps and Seals)

- 118 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0237 CWHEXXX - Cooling Water Heat Exchangers (20) In EG-3

- 120 [40 CFR 63.104(a)(5)] The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0238 NNN-22a - Vent from NNN C-EO3240

- 122 [40 CFR 60.662(b)] Combust the emissions are routed to the Plant Flare System that meets the requirements of 40 CFR 60.18. Subpart NNN. [40 CFR 60.662(b)]
 123 [40 CFR 60.663(b)(2)] Flow monitored by flow indicator hourly. Monitor the bypass line from the vent stream flow to the flare. Install the flow indicator in the vent stream at the entrance to any bypass line that could divert the vent stream. Shall comply with the requirements of 40 CFR 60.703(b) as approved by U.S. EPA on April 6, 1995 Subpart NNN. [40 CFR 60.663(b)(2)]
 Which Months: All Year Statistical Basis: None specified
 Flow recordkeeping by electronic or hard copy hourly. Record the bypass of the vent stream flow to the flare at least once every 15 minutes for each affected facility. Shall comply with the requirements of 40 CFR 60.703(b) as approved by U.S. EPA on April 6, 1995. Subpart NNN. [40 CFR 60.663(b)(2)]
 Flare is used as a control device. Compliance with all the monitoring, recordkeeping, and reporting requirements of NSPS, 40 CFR 60, Subpart NNN is considered compliance with all the applicable requirements of Compliance Assurance Monitoring (CAM). [40 CFR 60.18, 40 CFR 64]
 Emissions shall be routed to the Plant Flare System, Emission Point 03-73, permitted under Permit No. 2669-V0.

EQT 0239 NNN-22b - Vent from NNN C-EO3240

- 127 [40 CFR 60.662(b)] The vent stream shall be introduced into the flame zone when routed to a boiler (F-U205/U202) or combust the stream in the Plant Flare System (as backup) that meets the requirements of 40 CFR 60.18. Subpart NNN. [40 CFR 60.662(a), 40 CFR 60.662(b)]

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant
Activity Number: PER20090011
Permit Number: 2185-V3
Air • Title V Regular Permit Minor Mod

EQT 0239 NNN-22b - Vent from NNN C-EO3240

- Flow monitored by flow indicator hourly. Monitor the bypass line from the vent stream flow to the flare. Install the flow indicator in the vent stream at the entrance to any bypass line that could divert the vent stream. Shall comply with the requirements of 40 CFR 60.703(b) as approved by U.S. EPA on April 6, 1995 Subpart NNN. [40 CFR 60.663(b)(2)]
 Which Months: All Year Statistical Basis: None specified
 Flow recordkeeping by electronic or hard copy hourly. Record the bypass of the vent stream flow to the flare at least once every 15 minutes for each affected facility. Shall comply with the requirements of 40 CFR 60.703(b) as approved by U.S. EPA on April 6, 1995. Subpart NNN. [40 CFR 60.663(b)(2)]
 All the applicable requirements of NSPS, 40 CFR 60, Subpart NNN as stated for this emission point is considered compliance with all the applicable requirements of Compliance Assurance Monitoring (CAM).
 Emissions shall be routed to the Boiler, F-U205.

EQT 0240 NNN-22c - Vent from NNN C-EO3240

- Combust the emissions are routed to the Plant Flare System that meets the requirements of 40 CFR 60.18. Subpart NNN. [40 CFR 60.662(b)]
 Flow monitored by flow indicator hourly. Monitor the bypass line from the vent stream flow to the flare. Install the flow indicator in the vent stream at the entrance to any bypass line that could divert the vent stream. Shall comply with the requirements of 40 CFR 60.703(b) as approved by U.S. EPA on April 6, 1995 Subpart NNN. [40 CFR 60.663(b)(2)]
 Which Months: All Year Statistical Basis: None specified
 Flow recordkeeping by electronic or hard copy hourly. Record the bypass of the vent stream flow to the flare at least once every 15 minutes for each affected facility. Shall comply with the requirements of 40 CFR 60.703(b) as approved by U.S. EPA on April 6, 1995. Subpart NNN. [40 CFR 60.663(b)(2)]
 Flare is used as a control device. Compliance with all the monitoring, recordkeeping, and reporting requirements of NSPS, 40 CFR 60, Subpart NNN is considered compliance with all the applicable requirements of Compliance Assurance Monitoring (CAM). [40 CFR 60.18, 40 CFR 64]
 Emissions shall be routed to the Plant Flare System, Emission Point 03-73, permitted under Permit No. 2669-V0.

EQT 0241 NNN-22d - Vent from NNN C-EO3240

- TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 52.660(c)(4)]
 Which Months: All Year Statistical Basis: None specified
 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]
 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]
 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalysts type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculations of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(l)(7)]

SPECIFIC REQUIREMENTS

AJ ID: 1136 - Shell Chemical Co - Geismar Plant
 Activity Number: PER20090011
 Permit Number: 2185-V3
 Air - Title V Regular Permit Minor Mod

EQT 0241 NNN-22d - Vent from NNN C-EO3240

- 141 [40 CFR 60.665(l)] Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7). Subpart NNN. [40 CFR 60.665(l)]
 Emissions shall be routed through CO2 Vent, Emission Point 12-92.

EQT 0242 NNN-23 - Vent from NNN C-EG3110

- 143 [40 CFR 60.660(c)(4)] TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 60.660(c)(4)]
 Which Months: All Year Statistical Basis: None specified
 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]
 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]
 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalysts type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]
 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7). Subpart NNN. [40 CFR 60.665(l)]
 Emissions shall be routed through Quenched Bleed Flasher, Emission Point 20-92.

EQT 0243 NNN-24 - Vent from NNN C-EG3140

- 149 [40 CFR 60.660(c)(4)] TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 60.660(c)(4)]
 Which Months: All Year Statistical Basis: None specified
 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]
 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]
 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalysts type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]
 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7). Subpart NNN. [40 CFR 60.665(l)]
 Emissions shall be routed through Contaminated Steam Vent, Emission Point 18-92.

SPECIFIC REQUIREMENTS

AI ID: 1138 - Shell Chemical Co - Geismar Plant
 Activity Number: PER20090011
 Permit Number: 2185-V3
 Air - Title V Regular Permit Minor Mod

EQT 0244 NNN-25 - Vent from NNN C-EG3150

- 155 [40 CFR 60.660(c)(4)] TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (1). Subpart NNN. [40 CFR 60.660(c)(4)]
 Which Months: All Year Statistical Basis: None specified
 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]
 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]
 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalyst type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]
 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7). Subpart NNN. [40 CFR 60.665(l)]
 Emissions shall be routed through Vacuum System Aftercondenser, Emission Point 04-94.

EQT 0245 PWW-13 - Process Wastewater E-EO3105

- 161 [40 CFR 63.132(a)(1)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
 Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0246 PWW-14 - Process Wastewater V-EO3221

- 166 [40 CFR 63.132(a)(1)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
 Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]

SPECIFIC REQUIREMENTS

AJ ID: 1136 - Shell Chemical Co - Geismar Plant
Activity Number: PER20090011
Permit Number: 2185-V3
Air - Title V Regular Permit Minor Mod

EQT 0246 PWW-14 - Process Wastewater V-EO3221

- Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0247 PWW-15 - Process Wastewater E-EO3226

- Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
 Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0248 PWW-16 - Process Wastewater V-EO3281

- Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
 Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0249 PWW-17 - Process Wastewater V-EO3151

- Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]

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EQT 0249 PWW-17 - Process Wastewater V-EO3151

- 182 [40 CFR 63.132(b)(1)] Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0250 PWW-18 - Process Wastewater V-EO3251

- 186 [40 CFR 63.132(a)(1)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

EQT 0251 PWW-19 - Process Wastewater V-EO3304

- 191 [40 CFR 63.132(a)(1)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant
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EQT 0252 Process Wastewater V-E033321

- 196 [40 CFR 63.132(b)(1)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
 197 [40 CFR 63.132(b)(1)] Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
 198 [40 CFR 63.132(c)] Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51.

EQT 0253 RRR-01 - Vent from RRR EO3

- Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. If a boiler or process heater is used to as a control device the vent stream shall be introduced into the flame zone of the boiler or the process heater. Subpart RRR. [40 CFR 60.702(e)]
 Which Months: All Year Statistical Basis: None specified
 Combust the emissions in a flare that meets the requirements of 40 CFR 60.18. Subpart RRR. [40 CFR 60.702(b)]
 TRE index value > 1 index value without use of VOC emission control device. Subpart RRR. [40 CFR 60.702(c)]
 Which Months: All Year Statistical Basis: None specified
 Flow monitored by flow indicator hourly. Monitor the bypass line from the vent stream flow to the flare. Install the flow indicator in the vent stream at the entrance to any bypass line that could divert the vent stream. Shall comply with the requirements of 40 CFR 60.703(b). Subpart RRR.
 Which Months: All Year Statistical Basis: None specified
 Flow recordkeeping by electronic or hard copy hourly. Record the bypass of the vent stream flow to the flare at least once every 15 minutes for each affected facility. Shall comply with the requirements of 40 CFR 60.703(b). Subpart RRR.
 For a boiler or process heater or a flare submit a report containing the information in 40 CFR 60.705(b)(2) and (3). [40 CFR 60.705(b)(2), 40 CFR 60.705(b)(3)]
 Performance Test Data recordkeeping by electronic or hard copy continuously. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.705(b) through (l) measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart RRR. [40 CFR 60.705(b)]
 Shall comply with all the applicable requirements of NSPS, Subpart RRR, 40 CFR 60.705(d), 40 CFR 60.705(e)]
 Flare is used as a control device. Compliance with all the monitoring, recordkeeping, and reporting requirements of NSPS, 40 CFR 60, Subpart RRR is considered compliance with all the applicable requirements of Compliance Assurance Monitoring (CAM). [40 CFR 64, 40 CFR 60.18]

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EQT 0254 RRR-02 - Vent from RRR EG3

210 [40 CFR 60.705(r)] Emissions are routed to a distillation unit which complies with the NSPS, 40 CFR 60, Subpart NNN. Shall comply with the requirements of NSPS, 40 CFR 60, Subpart RRR. [40 CFR 60.705(t)]

EQT 0255 RRR-03 - Vent from RRR QB3

211 [40 CFR 60.705(r)] Emissions are routed to a distillation unit which complies with the NSPS, 40 CFR 60, Subpart NNN. Shall comply with the requirements of NSPS, 40 CFR 60, Subpart RRR. [40 CFR 60.705(t)]

EQT 0770 01-91 - Lean Absorbent Surge Tank, T-EO200

212 [LAC 33.III.5109.A] Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Determined as MACT under LAC 33.III.Chapter 51.

EQT 0771 08-09 - EO-3 Cooling Tower

213 [40 CFR 63.402] Do not use chromium-based water treatment chemicals in any affected IPCT. Subpart Q.

FUG 0009 10-92 - Fugitive Emissions EOEG-3

- 214 [40 CFR 60.482-1(a)] Non-OHAP: Demonstrate compliance with the requirements of 40 CFR 60.482-1 to 40 CFR 60.482-10 for all equipment within 180 days of initial startup. Subpart VV. [40 CFR 60.482-1(a)]
- 215 [40 CFR 60.482-2(a)(1)] Non-OHAP: Pumps in light liquid service (no dual mechanical seal system): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks by the methods specified in 40 CFR 60.485(b). If an instrument reading of 0,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(c). Subpart VV. [40 CFR 60.482-2(a)(1)]
- 216 [40 CFR 60.482-2(a)(2)] Which Months: All Year Statistical Basis: None Specified Non-OHAP: Pumps in light liquid service (no dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(c). Subpart VV. [40 CFR 60.482-2(a)(2)]
- 217 [40 CFR 60.482-2(c)] Non-OHAP: Pumps in light liquid service (no dual mechanical seal system): When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-2(c)]
- 218 [40 CFR 60.482-2(d)(1)] Non-OHAP: Pumps in light liquid service (dual mechanical seal system): Operate the seal system with the barrier fluid at a pressure that is greater than the pump stuffing box pressure; OR equip the seal system with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of 40 CFR 60.482-10; OR equip the seal system with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere. Subpart VV. [40 CFR 60.482-2(d)(1)]

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FUG 0009 10-92 - Fugitive Emissions EOEG-3

- 219 [40 CFR 60.482-2(d)(2)] Non-OHAP: Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is in heavy liquid service or not in VOC service. Subpart VV. [40 CFR 60.482-2(d)(2)]
- 220 [40 CFR 60.482-2(d)(3)] Non-OHAP: Pumps in light liquid service (dual mechanical seal system): Equip each barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart VV. [40 CFR 60.482-2(d)(3)]
- 221 [40 CFR 60.482-2(d)(4)] Non-OHAP: Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(d)(6)(ii) and (iii). Subpart VV. [40 CFR 60.482-2(d)(4)]
- Which Months: All Year Statistical Basis: None specified
- Non OHAP: Pumps in light liquid service (dual mechanical seal system): Equipment/operational data monitored by visual inspection/determination daily, or equip the sensor with an audible alarm. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in 40 CFR 60.482-2(d)(5)(ii), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(d)(6)(ii) and (iii). Subpart VV. [40 CFR 60.482-2(d)(5)(i)]
- Which Months: All Year Statistical Basis: None specified
- Non-OHAP: Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart VV. [40 CFR 60.482-2(d)(5)(ii)]
- Non-OHAP: Pumps in light liquid service (dual mechanical seal system): When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-2(d)(6)]
- Non-OHAP: Pumps in light liquid service (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart VV. [40 CFR 60.482-2(e)(3)]
- Which Months: All Year Statistical Basis: None specified
- Non-OHAP: Pumps in light liquid service (unsafe-to-monitor): Demonstrate that the pump is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 60.482-2(a). Subpart VV. [40 CFR 60.482-2(g)(1)]
- Non-OHAP: Pumps in light liquid service (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe to monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in 40 CFR 60.482-2(c) if a leak is detected. Subpart VV. [40 CFR 60.482-2(g)(2)]
- Which Months: All Year Statistical Basis: None specified
- Non-OHAP: Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Subpart VV. [40 CFR 60.482-2(h)]
- Which Months: All Year Statistical Basis: None specified
- Non-OHAP, Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as specified in 40 CFR 60.482-1(c) and 40 CFR 60.482-3(h) and (i). Subpart VV. [40 CFR 60.482-3(a)]
- Non-OHAP, Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip the seal system with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of 40 CFR 60.482-10; or equip the seal system with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere. Subpart VV. [40 CFR 60.482-3(b)]

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- 231 [40 CFR 60.482-3(c)] Non-OHAP, Compressors: Ensure that the barrier fluid is in heavy liquid service or not in VOC service. Subpart VV. [40 CFR 60.482-3(c)]
- 232 [40 CFR 60.482-3(d)] Non-OHAP, Compressors: Equip each barrier fluid system as described in 40 CFR 60.482-3(a) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart VV. [40 CFR 60.482-3(d)]
- 233 [40 CFR 60.482-3(e)(1)] Non-OHAP: Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm. If the sensor indicates failure of the seal system, the barrier system, or both based on the criterion determined under 40 CFR 60.482-3(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-3(g). Subpart VV. [40 CFR 60.482-3(e)(1)]
- Which Months: All Year Statistical Basis: None specified
- Non-OHAP, Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart VV. [40 CFR 60.482-3(e)(2)]
- Non-OHAP, Compressors: When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-3(g)]
- Non-OHAP: Compressors (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart VV. [40 CFR 60.482-3(i)(2)]
- Which Months: All Year Statistical Basis: None specified
- Non-OHAP: Pressure relief devices in gas/vapor service: VOC, Total < 500 ppm above background, except during pressure releases, as determined by the methods specified in 40 CFR 60.485(c). Subpart VV. [40 CFR 60.482-4(a)]
- Which Months: All Year Statistical Basis: None specified
- Non-OHAP: Pressure relief devices in gas/vapor service: After each pressure release, return to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-4(b)(1)]
- Non-OHAP: Pressure relief devices in gas/vapor service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after a pressure release, to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as specified in 40 CFR 60.485(c). Subpart VV. [40 CFR 60.482-4(b)(2)]
- Which Months: All Year Statistical Basis: None specified
- Non-OHAP: Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-4(d)(2)]
- Sampling connection systems to Non-OHAP: Equip with a closed-purged, closed-loop, or closed-vent system, except as provided in 40 CFR 60.482-1(c). Operate the system as specified in 40 CFR 60.482-5(a) and (b). Subpart VV.
- Non-OHAP, Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 60.482-1(c). The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line. Operate each open-ended valve or line equipped with a second valve such that the valve on the process fluid end is closed before the second valve is closed. The bleed valve or line may remain open during operations requiring venting the line between the block valves of a double block-and-bleed system, but shall comply with 40 CFR 60.482-6(a) at all other times. Subpart VV.

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant
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FUG 0009 10-92 - Fugitive Emissions EOEG-3

- 243 [40 CFR 60.482-7(d)] Non-OHAP: Valves in gas/vapor service and in light liquid service: When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-7(d)]
- 244 [40 CFR 60.482-7(h)(3)] Non-OHAP: Valves in gas/vapor service and in light liquid service (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart VV. [40 CFR 60.482-7(f)(3)]
- 245 [40 CFR 60.482-7(h)(1)] Which Months: All Year Statistical Basis: None specified Non-OHAP: Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 60.482-7(a). Subpart VV. [40 CFR 60.482-7(h)(1)]
- 246 [40 CFR 60.482-7(b)(2)] Non-OHAP: Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Adhere to a written plan that requires monitoring of the valve as frequently as practicable during safe to monitor times. Subpart VV. [40 CFR 60.482-7(b)(2)]
- 247 [40 CFR 60.482-7(h)(1)] Which Months: All Year Statistical Basis: None specified Non-OHAP: Valves in gas/vapor service and in light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface. Subpart VV. [40 CFR 60.482-7(h)(1)]
- 248 [40 CFR 60.482-7(h)(3)] Non-OHAP: Valves in gas/vapor service and in light liquid service (difficult-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually. Follow a written plan that requires monitoring of the valve at least once per calendar year. Subpart VV. [40 CFR 60.482-7(h)(3)]
- 249 [40 CFR 60.482-7] Which Months: All Year Statistical Basis: None specified Non-OHAP: Valves in gas/vapor service and in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks by the methods specified in 40 CFR 60.485(b). Permittee may elect to comply with the alternate standards in 40 CFR 60.482-7(c), 60.483-1, or 60.483-2. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-7(d). Subpart VV.
- 250 [40 CFR 60.482-8(a)] Which Months: All Year Statistical Basis: None specified Non-OHAP: Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) by the method specified in 40 CFR 60.485(b), if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method and comply with the requirements of 40 CFR 60.482-8(b) through (d); OR eliminate the indication of a leak. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-8(c). Subpart VV. [40 CFR 60.482-8(a)]
- 251 [40 CFR 60.482-8(c)] Which Months: All Year Statistical Basis: None specified Non-OHAP: Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors: When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-8(c)]
- 252 [40 CFR 60.485] Non-OHAP: In conducting the performance tests required in 40 CFR 60.8, use as reference methods and procedures the test methods in Appendix A of Part 60 or other methods and procedures as specified in 40 CFR 60.485, except as provided in 40 CFR 60.8(b). Conduct any other required demonstrations using the test methods and procedures outlined. Subpart VV.

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FUG 0009 10-92 - Fugitive Emissions EOEG-3

- 253 [40 CFR 60.486] Non-OHAP: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record and maintain records as specified 40 CFR 60.486(a) through (k). Subpart VV.
- 254 [40 CFR 60.487(d)] Non-OHAP, Submit notification: Due 90 days before implementing either of the alternative standards contained in 40 CFR 60.483-1 or 60.483-2. Notify DEQ of the provision selected. Subpart VV. [40 CFR 60.487(d)]
- 255 [40 CFR 60.487(e)] Non-OHAP, Submit performance test results: Due in accordance with 40 CFR 60.8 of the General Provisions. Subpart VV. [40 CFR 60.487(e)]
- 256 [40 CFR 60.487] Non-OHAP, Submit semiannual report: Due semiannually to DEQ beginning six months after the initial startup date. Submit the information specified in 40 CFR 60.487(b) and (c). Subpart VV.
- 257 [40 CFR 63.162(e)] Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63.169, and 40 CFR 63.172 through 63.174. Subpart H. [40 CFR 63.162(c)]
- 258 [40 CFR 63.162(f)] Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(h)(3) and 63.175(e)(1)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- 259 [40 CFR 63.163(b)(1)] Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (j). If a reading of 10,000 ppm (phase II); or 5,000 ppm (phase III; pumps handling polymerizing monomers), 2,000 ppm (phase III; pumps in food/medical service), or 1,000 ppm (phase III; all other pumps), or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]
- 260 [40 CFR 63.163(b)(3)] Which Months: All Year Statistical Basis: None specified Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)]
- 261 [40 CFR 63.163(c)] Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(c)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]
- 262 [40 CFR 63.163(d)(2)] Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]
- 263 [40 CFR 63.163(d)(4)] Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]
- 264 [40 CFR 63.163(e)(1)] Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(1)]

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- 265 [40 CFR 63.163(e)(2)] Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(2)]
- 266 [40 CFR 63.163(e)(3)] Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(3)]
- 267 [40 CFR 63.163(e)(4)] Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(4)]
- Which Months: All Year Statistical Basis: None specified
- 268 [40 CFR 63.163(e)(6)(i)] Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)(i)]
- 269 [40 CFR 63.163(e)(6)(i)] Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)(i)]
- 270 [40 CFR 63.163(e)] Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)]
- Which Months: All Year Statistical Basis: None specified
- 271 [40 CFR 63.163(h)] Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each pump as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.163(b)(3) and (e)(4), and the daily requirements of 40 CFR 63.163(e)(5). Subpart H. [40 CFR 63.163(h)]
- 272 [40 CFR 63.163(j)(1)] Pumps in light liquid service (unsafe-to-monitor): None specified
- 273 [40 CFR 63.163(j)(2)] Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(1)]
- 274 [40 CFR 63.164(a)] Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(2)]
- Which Months: All Year Statistical Basis: None specified
- Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]

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275	[40 CFR 63.164(b)]	Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172, or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]
276	[40 CFR 63.164(c)]	Compressors: Ensure that the barrier fluid is not in liquid service. Subpart H. [40 CFR 63.164(c)]
277	[40 CFR 63.164(d)]	Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]
278	[40 CFR 63.164(e)(2)]	Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]
279	[40 CFR 63.164(g)]	Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]
280	[40 CFR 63.164(q)(2)]	Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Comply with this requirement instead of the requirements in 40 CFR 63.164(a) through (h). Subpart H. [40 CFR 63.164(i)(2)]
281	[40 CFR 63.164]	Which Months: All Year Statistical Basis: None specified Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H.
282	[40 CFR 63.165(a)]	Which Months: All Year Statistical Basis: None specified Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
283	[40 CFR 63.165(b)(1)]	Which Months: All Year Statistical Basis: None specified Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]
284	[40 CFR 63.165(b)(2)]	Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]
285	[40 CFR 63.165(d)(2)]	Which Months: All Year Statistical Basis: None specified Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.165(a) and (b). Subpart H. [40 CFR 63.165(d)(2)]
286	[40 CFR 63.166]	Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H.

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- 287 [40 CFR 63.167] Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H.
- Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]
- Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]
- Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(1)]

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- Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(2)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(1)]
- Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(3)]
- Which Months: All Year Statistical Basis: None specified
- Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169(a)]
- Which Months: All Year Statistical Basis: None specified
- Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]
- Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H.
- Closed-vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(i)]
- Which Months: All Year Statistical Basis: None specified

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- Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(i). Subpart H. [40 CFR 63.172(h)]
- Closed-vent system (bypass lines, if applicable): Flow monitored by flow indicator once every 15 minutes. Install flow indicator at the entrance to any bypass line. Subpart H. [40 CFR 63.172(j)(1)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Generate records as specified in 40 CFR 63.118(a)(3). Subpart H. [40 CFR 63.172(j)(1)]
- Closed-vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart H. [40 CFR 63.172(j)(2)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent system (bypass lines if applicable): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart H. [40 CFR 63.172(j)(2)]
- Closed-vent system (unsafe-to-inspect): Demonstrate that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential dangers as a consequence of complying with 40 CFR 63.172(f)(1) or (f)(2). Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(1)]
- Closed-vent system (unsafe-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as practicable during safe-to-inspect times, but not more frequently than annually. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(2)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent system (difficult-to-inspect): Demonstrate that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H.
- [40 CFR 63.172(l)(1)]
- Closed-vent system (difficult-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every five years. Maintain a written plan that requires inspection of the equipment at least once every five years. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(2)]
- Which Months: All Year Statistical Basis: None specified
- Ensure that the closed-vent system or control device is operating whenever organic HAP emissions are vented to the closed-vent system or control device. Subpart H. [40 CFR 63.172(m)]
- Agitators in gas/vapor service or liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(s)]
- Which Months: All Year Statistical Basis: None specified

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Agitators in gas/vapor service or light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)]

Which Months: All Year Statistical Basis: None specified
 Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(c)]

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(1)]

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid organic HAP service. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(2)]

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(3)]

Agitators in gas/vapor service or light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the agitator seal. If there are indications of liquid dripping from the agitator seal at the time of the weekly inspection, monitor the agitator as specified in 40 CFR 63.180(b) to determine the presence of organic HAP in the barrier fluid. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(4)]

Which Months: All Year Statistical Basis: None specified
 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)(i)]

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(d)(6)]

Agitators in gas/vapor service or light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(q)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)]

Which Months: All Year Statistical Basis: None specified

317 [40 CFR 63.173(b)]

318 [40 CFR 63.173(c)]

319 [40 CFR 63.173(d)(1)]

320 [40 CFR 63.173(d)(2)]

321 [40 CFR 63.173(d)(3)]

322 [40 CFR 63.173(d)(4)]

323 [40 CFR 63.173(d)(6)(i)]

324 [40 CFR 63.173(d)(6)]

325 [40 CFR 63.173(d)]

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Agitators in gas/vapor service or light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.173(h)(1) and (d)(4), and the daily requirements of 40 CFR 63.173(d)(5). Subpart H. [40 CFR 63.173(g)]

Which Months: All Year Statistical Basis: None specified

Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the agitator cannot be monitored without elevating the monitoring personnel more than two meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(1)]

Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(3)]

Which Months: All Year Statistical Basis: None specified

Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the agitator is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.173(a) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(1)]

Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(2)]

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within 12 months after the compliance date, except as provided in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(1)]

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within the first 12 months after initial startup or by no later than 12 months after the date of promulgation of a specific subpart that references 40 CFR 63 Subpart H, whichever is later, except as specified in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(2)]

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

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- 335 [40 CFR 63.174(c)(1)(i)] Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(X)(i)]
- Which Months: All Year Statistical Basis: None specified
- Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169. Subpart H. [40 CFR 63.174(c)(2)(i)]
- Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]
- Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with 40 CFR 63.174(a) through (c). Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(1)]
- Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(2)]
- Which Months: All Year Statistical Basis: None specified
- Connectors in gas/vapor service or light liquid service (unsafe-to-repair): Demonstrate that repair personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.174(d). Comply with this requirement instead of the requirements in 40 CFR 63.174(a), (d), and (e). Subpart H. [40 CFR 63.174(g)]
- Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Comply with this requirement instead of the monitoring requirements of 40 CFR 63.174(a) and (c) and from the recordkeeping and reporting requirements of 40 CFR 63.181 and 63.182. Subpart H. [40 CFR 63.174(h)(2)]
- Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(i)(1) and (i)(2). Subpart H. [40 CFR 63.174(i)]
- Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H.
- Submit Initial Notification: Due within 120 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]

SPECIFIC REQUIREMENTS

AJ ID: 1138 - Shell Chemical Co - Geismar Plant
Activity Number: PER20090011
Permit Number: 2185-V3
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- 347 [40 CFR 63.182(b)] Submit application: Due as soon as practicable before the construction or reconstruction is planned to commence (but it need not be sooner than 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H). Submit application for approval of construction or reconstruction required by 40 CFR 63.5(d) in lieu of the Initial Notification. Subpart H. [40 CFR 63.182(b)]
- 348 [40 CFR 63.182(b)] Submit Initial Notification: Due within 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]
- 349 [40 CFR 63.182(c)] Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
- 350 [40 CFR 63.182(d)] Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]
- 351 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 352 [LAC 33:III.5109.A] Compliance with all the applicable requirements of NESHAP, 40 CFR 63 Subpart H, and NSPS, 40 CFR 60 Subpart VV is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51 for equipment in OHAP and Non-OHAP service, respectively.

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- 353 [40 CFR 60] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
- 354 [40 CFR 61.145(b)(1)] Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]
- 355 [40 CFR 61.148] Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.
- 356 [40 CFR 61.356(a)(4)] Benzene: Permittee shall comply with all the applicable recordkeeping requirements as stated in 40 CFR 61.356 and all the applicable reporting requirements of 40 CFR 61.357. Subpart FF. [40 CFR 61.356(a)(4), 40 CFR 61.357]
- 357 [40 CFR 61.] All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- 358 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 359 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 360 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 361 [40 CFR 63.105(e)] Maintenance wastewater: Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain a record of the information required by 40 CFR 63.105(b) and (c) as part of the start-up, shut-down, and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(e)]
- 362 [40 CFR 63.] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant
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UNF 0005 EOEG-3 - EOEG-3 Facility

- Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- Emissions of smoke onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- Outdoor burning of waste material or other combustible material is prohibited.
- Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- Do not fire an affected point source with Number 6 Fuel Oil or perform testing of emergency and training combustion units without prior approval of DEQ on a day that is designated as an Ozone Action Day by DEQ.
- Establish an emission factor for each applicable affected point source such that if each affected point sources was operated at its a averaging capacity, the cumulative emission factor in pounds NO_x/MMBtu from all point sources in the averaging group would not exceed the facility-wide emission factor. Use the equations in LAC 33:III.2201.E.a to calculate the cumulative emission rate and the facility-wide emission factor.
- Include in the submitted plan a description of the actions that will be taken if any under-controlled unit is operated at more than 10 percent above its averaging capacity.
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Carry out recordkeeping that includes, but is not limited to, a record of the data on which the determination of each point source's hourly, daily, or 30-day, as appropriate, compliance with the facility-wide averaging plan is based.
- Comply with the facility-wide averaging plan as approved by DEQ.
- Submit a request for approval to use a facility-wide averaging plan, that includes the details of the plan, to DEQ either separately or with the permit application or in the optional compliance plan described in LAC 33:III.2201.F.7.
- Perform NO_x emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NO_x emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO₂, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.

SPECIFIC REQUIREMENTS

AJ ID: 1136 - Shell Chemical Co - Gelsman Plant
 Activity Number: PER20080011
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UNF 0005 EOEG-3 - EOEG-3 Facility

- 378 [LAC 33:III.2201.I.5] Submit report: Due annually, by the 1st of July. Submit ammonia emissions resulting from the operation of a NO_x control equipment system in accordance with LAC 33:III.5107.A.
- 379 [LAC 33:III.2201.J.1] Modify and/or install and bring into normal operation NO_x control equipment and/or NO_x monitoring systems in accordance with LAC 33:III. Chapter 22 as expeditiously as possible, but by no later than May 1, 2005, except as provided in LAC 33:III.2202.
- 380 [LAC 33:III.2201.J.2] Complete all initial compliance testing, specified by LAC 33:III.2201.G, for equipment modified with NO_x reduction controls or a NO_x monitoring system to meet the provisions of LAC 33:III.Chapter 22 within 60 days of achieving normal production rate or after the end of the shake down period, but in no event later than 180 days after initial start-up, except as provided in LAC 33:III.2202.
- 381 [LAC 33:III.2201.J.2] Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than November 1, 2005, except as provided in LAC 33:III.2202.
- 382 [LAC 33:III.2202.C.1] Comply with applicable emission factors in Table B-1 of LAC33:III.2202.B as expeditiously as possible, but not later than two years after determination and notification by the EPA in accordance with LAC33:III.2202.A.
- 383 [LAC 33:III.2202.C.2] Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than 30 months after determination and notification by the EPA in accordance with LAC33:III.2202.A.
- 384 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 385 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 386 [LAC 33:III.501.C.6] Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HR VOC), which include 1,3-Butadiene, Butene, cis-2-Butene, trans-2-Butene, Ethylene, Propylene. (State Only).
- 387 [LAC 33:III.501.C.6] Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only).
- 388 [LAC 33:III.5105.A.1] Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
- 389 [LAC 33:III.5105.A.2] Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B.
- 390 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 391 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Subchapter A.
- 392 [LAC 33:III.5107.A.2] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.

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UNF 0005 EOEG-3 - EOEG-3 Facility

- 393 [LAC 33:III.5107.A] Submit Annual Emissions Report: Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 394 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 395 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:1.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:1.3923.
- 396 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:1.3931.
- 397 [LAC 33:III.5107.B.4] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a through B.4.a.viii. Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity. **IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES**, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 398 [LAC 33:III.5107.B.5] Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.
- 399 [LAC 33:III.5109.C] Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.
- 400 [LAC 33:III.5113.A.1] Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- 401 [LAC 33:III.5113.A.2] An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.

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AJ ID: 1136 - Shell Chemical Co - Geismar Plant
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UNF 0005 EOEG-3 - EOEG-3 Facility

- 403 [LAC 33:III.535] Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537.
 [LAC 33:III.535, LAC 33:III.537]
 Activate the preplanned abatement strategy listed in LAC 33:III.561.1. Table 5 when the administrative authority declares an Air Pollution Alert.
- 404 [LAC 33:III.5609.A.1.b] Activate the preplanned strategy listed in LAC 33:III.561.1. Table 6 when the administrative authority declares an Air Pollution Warning.
- 405 [LAC 33:III.5609.A.2.b] Activate the preplanned abatement strategy listed in LAC 33:III.561.1. Table 7 when the administrative authority declares an Air Pollution Emergency.
- 406 [LAC 33:III.5609.A.3.b] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
 Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.561.1. Tables 5, 6, and 7.
 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority.
- 407 [LAC 33:III.5609.A] During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.
- 408 [LAC 33:III.5611.A] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- 409 [LAC 33:III.5611.B] Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- 410 [LAC 33:III.5901.A] Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III. Chapter 59, whichever is later.
- 411 [LAC 33:III.5907] Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division.
- 412 [LAC 33:III.5911.A] Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate.
- 413 [LAC 33:III.5911.C] Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded.
- 414 [LAC 33:III.905] Provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of emission limits.
- 415 [LAC 33:III.913] Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations.
- 416 [LAC 33:III.917.A] No variance may permit or authorize the maintenance of a nuisance, or a danger to public health or safety.
- 417 [LAC 33:III.917.B] Submit Emission Inventory (EI) Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
- 418 [LAC 33:III.919.D]

SPECIFIC REQUIREMENTS

AI ID: 11136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20090011

Permit Number: 2185-V3

Air - Title V Regular Permit Minor Mod

UNF 0005 EOEG-3 - EOEG-3 Facility

- Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:1.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:1.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.
- No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality standards to be exceeded.

419 [LAC 33:III.927]

420 [LAC 33:III.929.A]